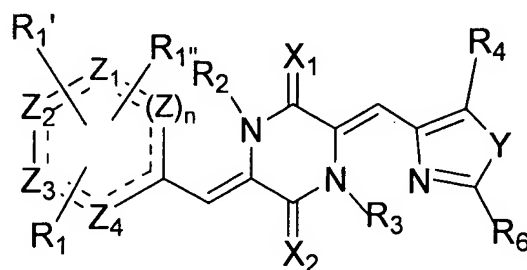


AMENDMENTS TO THE CLAIMS

1-14. (CANCELED)

15. (CURRENTLY AMENDED) A compound having the structure of Formula (I):



(I)

wherein

~~R₁, R₄, and R₆~~, are each separately selected from the group consisting of a hydrogen atom, a halogen atom, hydroxy, and cyano, and or separately selected from the group consisting of saturated C₁-C₂₄ alkyl, unsaturated C₁-C₂₄ alkenyl, cycloalkyl, cycloalkenyl, alkoxy, cycloalkoxy, aryl, substituted aryl, heteroaryl, substituted heteroaryl, amino, substituted amino, nitro, azido, substituted nitro, phenyl, and substituted phenyl groups, hydroxy, carboxy, -CO-O-R₇, cyano, alkylthio, halogenated alkyl including polyhalogenated alkyl, halogenated carbonyl, and carbonyl -CCO-R₇, each optionally substituted with one or more of alkoxy, cycloalkyl, cycloalkenyl, acyl, acylamino, acyloxy, amino, aminoacyl, aminoacyloxy, oxyacylamino, cyano, halogen, hydroxy, carboxy, carboxyalkyl, aryl, aryloxy, heteroaryl, heteroaryloxy, hydroxyamino, alkoxyamino, nitro, --SO-alkyl, --SO-aryl, --SO-heteroaryl, --SO₂-alkyl, --SO₂-aryl, and --SO₂-heteroaryl;

~~wherein R₇~~ is selected from a hydrogen atom or, a halogen atom, and or selected from the group consisting of saturated C₁-C₂₄ alkyl, unsaturated C₁-C₂₄ alkenyl, cycloalkyl, cycloalkenyl, alkoxy, cycloalkoxy, aryl, substituted aryl, heteroaryl, substituted heteroaryl, amino, substituted amino, nitro, azido, and substituted nitro, phenyl groups, and substituted phenyl groups each optionally substituted with one or more of

alkoxy, cycloalkyl, cycloalkenyl, acyl, acylamino, acyloxy, amino, aminoacyl, aminoacyloxy, oxyacylamino, cyano, halogen, hydroxy, carboxy, carboxyalkyl, aryl, aryloxy, heteroaryl, heteroaryloxy, hydroxyamino, alkoxyamino, nitro, --SO-alkyl, --SO-aryl, --SO-heteroaryl, --SO₂-alkyl, --SO₂-aryl, and --SO₂-heteroaryl;

R₄ is a tert-butyl group;

R₁' and R₁" are each independently selected from the group consisting of a hydrogen atom, a halogen atom, hydroxy, and cyano, and-or independently selected from the group consisting of saturated C₁-C₂₄ alkyl, unsaturated C₁-C₂₄ alkenyl, cycloalkyl, cycloalkenyl, alkoxy, cycloalkoxy, aryl, substituted-aryl, heteroaryl, substituted heteroaryl, amino, substituted-amino, nitro, azido, substituted-nitro, phenyl, and substituted phenyl groups, hydroxy, carboxy, -CO-O-R₇, cyano, alkylthio, halogenated alkyl including polyhalogenated alkyl, halogenated carbonyl, and carbonyl-CCO-R₇, each optionally substituted with one or more of alkoxy, cycloalkyl, cycloalkenyl, acyl, acylamino, acyloxy, amino, aminoacyl, aminoacyloxy, oxyacylamino, cyano, halogen, hydroxy, carboxy, carboxyalkyl, aryl, aryloxy, heteroaryl, heteroaryloxy, hydroxyamino, alkoxyamino, nitro, --SO-alkyl, --SO-aryl, --SO-heteroaryl, --SO₂-alkyl, --SO₂-aryl, and --SO₂-heteroaryl;

~~wherein R₇ is selected from a hydrogen atom, a halogen atom, and saturated C₁-C₂₄ alkyl, unsaturated C₁-C₂₄ alkenyl, cycloalkyl, cycloalkenyl, alkoxy, cycloalkoxy, aryl, substituted-aryl, heteroaryl, substituted heteroaryl, amino, substituted-amino, nitro, azido, substituted-nitro, phenyl, and substituted phenyl groups;~~

R, R₁' and R₁" are either covalently bound to one another or are not covalently bound to one another;

R₂, R₃, and R₅ are each separately selected from the group consisting of a hydrogen atom, or a halogen atom, and-or separately selected from the group consisting of saturated C₁-C₁₂ alkyl, unsaturated C₁-C₁₂ alkenyl, acyl, cycloalkyl, alkoxy, cycloalkoxy, aryl, substituted-aryl, heteroaryl, substituted heteroaryl, amino, substituted-amino, nitro, and substituted nitro groups, and sulfonyl and substituted sulfonyl groups, each optionally substituted with one or more of alkoxy, cycloalkyl, cycloalkenyl, acyl, acylamino, acyloxy, amino, aminoacyl, aminoacyloxy, oxyacylamino, cyano, halogen, hydroxy,

carboxy, carboxyalkyl, aryl, aryloxy, heteroaryl, heteroaryloxy, hydroxyamino, alkoxyamino, nitro, --SO-alkyl, --SO-aryl, --SO-heteroaryl, --SO₂-alkyl, --SO₂-aryl, and --SO₂-heteroaryl;

X₁ and X₂ are separately selected from the group consisting of an oxygen atom, a nitrogen atom, and a sulfur atom, each either unsubstituted or substituted with a R₅ group, as defined above;

Y is selected from the group consisting of a nitrogen atom substituted with R₅, an oxygen atom, a sulfur atom, a oxidized sulfur atom, and a methylene group substituted with one or more R₅;

n is an integer equal to zero, one or two;

Z, for each separate n, if non-zero, and Z₁, Z₂, Z₃ and Z₄ are each separately selected from a carbon atom, a sulfur atom, a nitrogen atom or an oxygen atom; and

the dashed bonds may be either single or double bonds. [[:]]

~~with the proviso that, in a particular compound, if R₁, R₁', R₂, R₃, R₄ and R₅ are each a hydrogen atom, then it is not true that: 1) X₁ and X₂ are each an oxygen atom and 2) R₄ is either 3,3-dimethylpropyl-1-ene or a hydrogen atom.~~

16. (ORIGINAL) The compound of claim 15, wherein each of R₂, R₃, R₅ and R₆ is a hydrogen atom.

17. (ORIGINAL) The compound of claim 15, wherein each of X₁ and X₂ is an oxygen atom.

18. (CANCELED)

19. (CANCELED)

20. (CURRENTLY AMENDED) The compound of to claim 15, wherein R₁ is a substituted-phenyl group substituted with one or more of alkoxy, cycloalkyl, cycloalkenyl, acyl, aclyamino, acyloxy, amino, aminoacyl, aminoacyloxy, oxyacylamino, cyano, halogen, hydroxy, carboxy, carboxyalkyl, aryl, aryloxy, heteroaryl, heteroaryloxy, hydroxyamino, alkoxyamino, nitro, --SO-alkyl, --SO-aryl, --SO-heteroaryl, --SO₂-alkyl, --SO₂-aryl, and --SO₂-heteroaryl.

21. (ORIGINAL) The compound of claim 20, wherein the substituted phenyl group is methoxybenzene.

Appl. No. : 10/632,531
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22. (ORIGINAL) The compound according to claim 15, wherein n is equal to zero or one.

23. (ORIGINAL) The compound according to claim 15, wherein n is equal to one.

24. (ORIGINAL) The compound according to claim 15, wherein n is equal to one and Z, Z₁, Z₂, Z₃ and Z₄ are each a carbon atom.

25. (CURRENTLY AMENDED) The compound of Claim 15, wherein said compound is selected from the group consisting of: KPU-2, KPU-11, KPU-35, KPU-66, KPU-80, KPU-81, and KPU-90 and t-butyl-phenylahistin.

26-40. (CANCELLED)